

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|--|---|---------------------|
| 79 | 703 | (amplif\$5 with voltage\$1) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) and ((adder\$1 or addition) with subtract\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 12:21 |
| 80 | 157 | (amplif\$5 with voltage\$1) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) and ((adder\$1 or addition) with subtract\$4 with voltage\$1) | USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 10:21 |
| 81 | 8 | (amplif\$5 with voltage\$1) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) and ((adder\$1 or addition) with subtract\$4 with voltage\$1) and (pressure\$1 with (detect\$4 or sensor\$1 or sensing)) | USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 10:20 |
| 83 | 301 | (amplif\$5 with voltage\$1) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) and ((adder\$1 or adding or addition) with subtract\$4 with voltage\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 10:21 |
| 82 | 19 | (amplif\$5 with voltage\$1) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) and ((adder\$1 or adding or addition) with subtract\$4 with voltage\$1) and (pressure\$1 with (detect\$4 or sensor\$1 or sensing)) | USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 11:19 |
| 84 | 360 | (702/104).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 11:18 |
| 85 | 30 | ((702/104).CCLS.) and (amplif\$5 with voltage\$1) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 11:55 |
| 86 | 15 | "3643507" | USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 11:56 |
| 87 | 12 | "4478527" | USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 11:57 |
| 88 | 15 | "4763973" | USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 11:57 |
| 89 | 12 | 4763973.URPN. | USPAT | 2004/04/20 12:14 |
| 90 | 4998 | (physical adj quantit\$3) and (range or ranges) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 12:19 |
| 91 | 54 | (physical adj quantit\$3) and (range or ranges) and ((offset\$4 or (off adj set\$5) or (window adj comparator\$1))) and (range or ranges) and (voltage\$1 with subtract\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 12:54 |
| 92 | 5 | (physical adj quantit\$3) and (range or ranges) and (window adj comparator\$1) and (range or ranges) and (voltage\$1 with subtract\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:23 |

| | | | | |
|-----|------|---|---|---------------------|
| 93 | 126 | (physical adj quantit\$3) and (range or ranges) and (range or ranges) and (voltage\$1 with subtract\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 12:56 |
| 95 | 26 | (physical adj quantit\$3) and ((predetermin\$3 or (pre adj determin\$3)) near (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:19 |
| 96 | 1 | (physical adj quantit\$3) and ((predetermin\$3 or (pre adj determin\$3)) near (range or ranges)) and subtract\$4 and (range or ranges) and (current\$1 with consum\$6) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:14 |
| 97 | 2 | "6598484" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:21 |
| 98 | 2 | "6657423" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:22 |
| 99 | 1 | "6724202" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:25 |
| 100 | 3 | "6518880" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:23 |
| 101 | 31 | (physical adj quantit\$3) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:27 |
| 102 | 1177 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:35 |
| 103 | 86 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) and (current\$1 with consum\$6) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:51 |
| 104 | 365 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) and modulats\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:51 |
| 105 | 151 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) and (modulats\$6 with voltage\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:52 |
| 107 | 111 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) and (modulats\$6 with voltage\$1) and (position\$1 or velocit\$3 or acceleration\$1 or angle\$1 or (angular adj speed\$1) or (angular adj acceleration\$1)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:54 |

| | | | | |
|-----|-----|---|---|---------------------|
| 109 | 124 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) and (modulat\$6 with voltage\$1) and (position\$1 or velocit\$3 or acceleration\$1 or angle\$1 or (angular adj speed\$1) or (angular adj acceleration\$1) or temperature\$1 or pressure\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 13:59 |
| 110 | 35 | ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) and (voltage\$1 with subtract\$4) and (range or ranges) and (modulat\$6 with voltage\$1) and (position\$1 or velocit\$3 or acceleration\$1 or angle\$1 or (angular adj speed\$1) or (angular adj acceleration\$1) or temperature\$1 or pressure\$1) and (ecu\$1 or (control adj unit\$1)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:28 |
| 111 | 105 | (702/98).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:27 |
| 112 | 429 | (702/85).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:27 |
| 113 | 314 | (702/94).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:28 |
| 114 | 65 | (702/96).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:27 |
| 115 | 175 | (702/99).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:33 |
| 116 | 14 | ((702/98).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:29 |
| 117 | 40 | ((702/85).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:30 |
| 120 | 20 | ((702/99).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:27 |
| 119 | 13 | ((702/96).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:24 |
| 118 | 27 | ((702/94).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 14:30 |
| 171 | 266 | (73/1.01).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:24 |

| | | | | |
|-----|-----|---|---|---------------------|
| 172 | 225 | (73/1.37).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:24 |
| 173 | 10 | ((73/1.01).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:25 |
| 174 | 12 | ((73/1.37).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:25 |
| 175 | 115 | (702/105).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:27 |
| 176 | 14 | ((702/105).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:33 |
| 177 | 360 | (702/104).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:33 |
| 178 | 32 | ((702/104).CCLS.) and ((predetermin\$3 or (pre adj determin\$3)) near2 (range or ranges)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 15:33 |
| - | 82 | MAKINO-YASUAKI | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:16 |
| - | 106 | IKUTA-TOSHIO | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:17 |
| - | 22 | MAKINO-YASUAKI and (range\$1 or ranging) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:28 |
| - | 3 | MAKINO-YASUAKI and (range\$1 or ranging) and (offset\$4 or (off adj set\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:32 |
| - | 3 | (MAKINO-YASUAKI and (range\$1 or ranging)) and (offset\$4 or (off adj set\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:29 |
| - | 25 | IKUTA-TOSHIO and (range\$1 or ranging) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:28 |
| - | 4 | (IKUTA-TOSHIO and (range\$1 or ranging)) and (offset\$4 or (off adj set\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:31 |

| | | | | |
|---|-------|--|---|---------------------|
| - | 60042 | denso.asn. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:31 |
| - | 289 | denso.asn. and (range\$1 or ranging) and (offset\$4 or (off adj set\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:33 |
| - | 14 | denso.asn. and (range\$1 or ranging) and (offset\$4 or (off adj set\$5)) and adder | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:33 |
| - | 167 | denso.asn. and (range\$1 or ranging) and (offset\$4 or (off adj set\$5)) and (adder or addition\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:34 |
| - | 43 | denso.asn. and ((range\$1 or ranging) with volt\$5) and (offset\$4 or (off adj set\$5)) and (adder or addition\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:54 |
| - | 4791 | ((range\$1 or ranging) with volt\$5) and ((offset\$4 or (off adj set\$5)) with (adjust\$5 or correct\$4 or compensat\$5)) and (adder\$1 or addition\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:56 |
| - | 440 | ((range\$1 or ranging) with volt\$5) and ((offset\$4 or (off adj set\$5)) with (adjust\$5 or correct\$4 or compensat\$5)) and ((adder\$1 or addition) with subtract\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/19 14:57 |
| - | 124 | ((range\$1 or ranging) with volt\$5) and ((offset\$4 or (off adj set\$5)) with (adjust\$5 or correct\$4 or compensat\$5)) and ((adder\$1 or addition) with subtract\$4) and (determin\$6 with (range\$1 or ranging)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/20 09:24 |

10602816_QUAL

3643507 99
4478527 99
4763973 99
4969113 99
5675415 99
5945671 99
6040779 99
6355314 99
6355315 99
6365239 99
6368680 99
6474133 99
5692504 80
4281245 80
4290146 80
4368981 80
4433238 80
4515430 80
4541771 80
4541731 80
4581530 80
4823082 80
4873655 80
4932259 80
4976377 80
5000540 80
5242793 80
5307146 80
5366292 80
5426969 80
5614980 80
5795791 80
5824921 80
5831850 80
5948368 80
5953449 80
5952571 80
5978079 80
5982165 80
6075452 80
6081230 80
6091887 80
6204916 80
6287686 80
6312919 80
6327555 80
6329465 80
6352578 80

10602816_QUAL

6358608 80
6395149 80

10602816_LIST

PLUS Search Results for S/N 10602816, Searched April 20, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

3643507
4478527
4763973
4969113
5675415
5945671
6040779
6355314
6355315
6365239
6368680
6474133
5692504
4281245
4290146
4368981
4433238
4515430
4541771
4541731
4581530
4823082
4873655
4932259
4976377
5000540
5242793
5307146
5366292
5426969
5614980
5795791
5824921
5831850
5948368
5953449
5952571

10602816_LIST

5978079
5982165
6075452
6081230
6091887
6204916
6287686
6312919
6327555
6329465
6352578
6358608
6395149

10602816 WEST

(3643507 4478527 4763973 4969113 5675415 5945671 6040779 6355314 63553
15 6365239 6368680 6474133 5692504 4281245 4290146 4368981 4433238 451
5430 4541771 4541731 4581530 4823082 4873655 4932259 4976377 5000540 5
242793 5307146 5366292 5426969 5614980 5795791 5824921 5831850 5948368
5953449 5952571 5978079 5982165 6075452 6081230 6091887 6204916 62876
86 6312919 6327555 6329465 6352578 6358608 6395149).pn.

10602816_EAST

(3643507
4478527
4763973
4969113
5675415
5945671
6040779
6355314
6355315
6365239
6368680
6474133
5692504
4281245
4290146
4368981
4433238
4515430
4541771
4541731
4581530
4823082
4873655
4932259
4976377
5000540
5242793
5307146
5366292
5426969
5614980
5795791
5824921
5831850
5948368
5953449
5952571
5978079
5982165
6075452
6081230
6091887
6204916
6287686
6312919
6327555
6329465
6352578

10602816_EAST

6358608
6395149) .pn.

10602816_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10602816 on April 20, 2004

Original Classifications

4 428/1.1
2 250/227.23
2 385/12
2 428/362

Cross-Reference Classifications

4 252/299.01
4 349/86
4 349/88
4 349/92
3 349/89
2 374/205
2 428/402.2
2 706/900

Combined Classifications

4 252/299.01
4 349/86
4 349/88
4 349/92
4 428/1.1
3 250/227.23
3 349/89
3 385/12
2 356/477
2 374/205
2 385/8
2 428/362
2 428/402.2
2 706/900

10602816_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10602816 on April 20, 2004

4 252/299.01 (0 OR, 4 XR)
 Class 252 : COMPOSITIONS
 252/299.01 LIQUID CRYSTAL COMPOSITIONS

4 349/86 (0 OR, 4 XR)
 Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS
 349/56 PARTICULAR STRUCTURE
 349/84 .Having significant detail of cell structure
 only
 349/86 ..Microencapsulated or polymer dispersed liquid
 crystal

4 349/88 (0 OR, 4 XR)
 Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS
 349/56 PARTICULAR STRUCTURE
 349/84 .Having significant detail of cell structure
 only
 349/86 ..Microencapsulated or polymer dispersed liquid
 crystal
 349/88 ...Polymer network liquid crystal

4 349/92 (0 OR, 4 XR)
 Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS
 349/56 PARTICULAR STRUCTURE
 349/84 .Having significant detail of cell structure
 only
 349/86 ..Microencapsulated or polymer dispersed liquid
 crystal
 349/92 ...Formed by particular technique

4 428/1.1 (4 OR, 0 XR)
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
 428/1.1 LIQUID CRYSTAL OPTICAL DISPLAY HAVING LAYER OF
 SPECIFIED COMPOSITION

3 250/227.23 (2 OR, 1 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/216 .Optical or pre-photocell system
 250/227.11 ..Light conductor

10602816_CLSTITLES

250/227.23 ...With spectral frequency/wavelength
discrimination

- d
- 3 349/89 (0 OR, 3 XR)
 - Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS
 - 349/56 PARTICULAR STRUCTURE
 - 349/84 .Having significant detail of cell structure only
 - 349/86 ..Microencapsulated or polymer dispersed liqui
crystal
 - 349/89 ...With particular encapsulating medium
 - 3 385/12 (2 OR, 1 XR)
 - Class 385 : OPTICAL WAVEGUIDES
 - 385/12 OPTICAL WAVEGUIDE SENSOR
 - 2 356/477 (1 OR, 1 XR)
 - Class 356 : OPTICS: MEASURING AND TESTING
 - 356/450 BY LIGHT INTERFERENCE (E.G., INTERFEROMETER)
 - 356/477 .Using fiber or waveguide interferometer
 - 2 374/205 (0 OR, 2 XR)
 - Class 374 : THERMAL MEASURING AND TESTING
 - 374/100 TEMPERATURE MEASUREMENT (E.G., THERMOMETER)
 - 374/187 .Mechanical (e.g., expansion or contraction of materials)
 - 374/205 ..Compound sensing element (e.g., bimetallic)
 - 2 385/8 (1 OR, 1 XR)
 - Class 385 : OPTICAL WAVEGUIDES
 - 385/4 DIRECTIONAL OPTICAL MODULATION WITHIN AN OPTICAL WAVEGUIDE
 - 385/8 .Electro-optic
 - 2 428/362 (2 OR, 0 XR)
 - Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
 - 428/357 COATED OR STRUCTUALLY DEFINED FLAKE, PARTICLE, CELL, STRAND, STRAND PORTION, ROD, FILAME
NT, MACROSCOPIC FIBER OR MASS THEREOF
 - 428/359 .Staple length fiber
 - 428/362 ..Nonlinear (e.g., crimped, coiled, etc.)
 - 2 428/402.2 (0 OR, 2 XR)
 - Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
 - 428/357 COATED OR STRUCTUALLY DEFINED FLAKE, PARTICLE,

| | | |
|-----------------|-----------|--|
| | | 10602816_CLSTITLES |
| | | CELL, STRAND, STRAND PORTION, ROD, FILAME |
| NT, MACROSCOPIC | | |
| | | FIBER OR MASS THEREOF |
| | 428/402 | .Particulate matter (e.g., sphere, flake, etc. |
|) | | |
| | 428/402.2 | ..Microcapsule with fluid core (includes liposome) |
| 2 | 706/900 | (0 OR, 2 XR) |
| | Class | 706 : DATA PROCESSING: ARTIFICIAL INTELLIGENCE |
| | 706/900 | FUZZY LOGIC |

about 3
above 2
abstract 1
acceleration 1
accompanying 1
accordance 3
according 12
accordingly 1
accuracy 4
accurately 2
adder 1
addition 4
adjustment 4
advantages 1
alculates 1
among 3
amplif 2
amplified 14
amplifier 12
amplifies 3
and 48
another 1
apparent 1
application 3
applied 1
are 1
art 3
automation 2
background 1
based 6
become 1
belongs 1
between 6
both 8
brief 1
calculates 4
can 6
cannot 2
car 1
case 1
change 10
circuit 36
comparatively 3
comparator 1
comparators 1
connect 1
connects 2
consumed 2

consumption 5
 control 2
 controlled 1
 controlling 1
 controls 1
 conversely 1
 corresponding 9
 corresponds 4
 cost 1
 cross 1
 current 10
 decreasing 2
 defining 1
 description 3
 detailed 2
 detect 6
 detected 11
 detecting 8
 detection 15
 detector 4
 detects 4
 determination 5
 determined 23
 determines 3
 determining 2
 device 25
 diagram 7
 diaphragm 1
 different 2
 disclosure 2
 drawings 3
 each 5
 ecu 5
 electronic 2
 embodiment 10
 embodiments 1
 equipment 15
 example 1
 features 1
 field 1
 fig 13
 filed 1
 final 1
 fine 6
 first 33
 following 1
 for 11
 fourth 1

frequency 2
 from 6
 further 3
 graph 3
 ground 2
 quantity 1
 harness 2
 has 4
 have 1
 having 4
 here 4
 herein 1
 high 1
 home 1
 however 1
 ied 2
 includes 9
 incorporated 1
 increase 1
 ine 1
 information 3
 informs 5
 initial 4
 inkention 1
 inputted 1
 invention 10
 first 5
 japanese 1
 july 1
 large 10
 linear 1
 low 1
 made 1
 means 1
 measurement 35
 method 2
 modulated 3
 modulates 1
 modulating 1
 more 1
 much 1
 necessitates 1
 next 1
 not 2
 object 2
 objects 1
 offset 6
 one 2

only 2
 operates 3
 other 1
 output 25
 outputs 10
 outputted 2
 outputting 8
 outside 20
 page 8
 partial 2
 patent 1
 physical 34
 plurality 7
 power 2
 predetermined 5
 preferably 8
 preferred 1
 present 8
 pressure 14
 problems 1
 proposed 1
 provide 2
 provides 1
 providing 1
 quantity 33
 range 43
 ranges 4
 recently 1
 reference 3
 related 4
 relates 1
 relationship 3
 required 1
 resolution 1
 respectively 2
 rom 1
 schematic 5
 second 10
 sensing 12
 sensor 13
 set 5
 showing 10
 shown 5
 signal 4
 similarly 1
 single 1
 size 1
 source 2

step 6
steps 2
substantially 2
subtracted 20
subtracting 1
subtracts 2
such 1
summary 1
supplied 3
supplies 1
supplying 1
switching 4
temperature 1
terminal 6
that 13
the 190
then 1
therefore 2
thin 1
third 2
this 2
three 1
threshold 1
through 2
thus 2
unit 6
units 3
using 1
variable 2
view 1
voltage 44
when 3
where 1
which 4
wide 3
will 1
window 2
wire 2
with 6
without 2